| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|---------|---|---|---------------------|---------|------------------|
| L1 | 1 | 10/796167 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2006/04/10 11:46 |
| L2 | 2 | "20020060709" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2006/04/10 11:27 |
| L4 | 2 | "20020085057" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2006/04/10 11:46 |
| L5 | 3016 | 347/19 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2006/04/10 14:00 |
| S5 | 3016 | 347/19 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | OFF | 2006/04/10 11:06 |
| S6 | 887306 | (position or mis\$align\$4 or un\$align\$2 or adjust\$4 or correct\$3) with (print\$head or sub\$scan\$3 or head or cartridge or array or nozzle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:21 |
| S7 | 121453 | (position or mis\$align\$4 or un\$align\$2) with (chang\$3 or adjust\$4 or correct\$3) with (print\$head or sub\$scan\$3 or head or cartridge or array or nozzle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:52 |
| S8 | 2275117 | (eject\$3 or print\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:22 |

| <u>S9</u> | 5840195 | measuring or measurement or measur\$3 or detect\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:23 |
|-----------|---------|--|---|-----|-----|------------------|
| S10 | 187 | S5 and S7 same S8 same S9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:34 |
| S12 | 18 | ("2000190482" "01238943" "11254659" "2002178505" "05330088" "11170501" "2001033641" "09076538" "0974463").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 09:35 |
| S13 | 1 | 2000-502098.NRAN. | DERWENT | AND | OFF | 2006/04/06 09:37 |
| S14 | 1 | 1997-240595.NRAN. | DERWENT | AND | OFF | 2006/04/06 09:40 |
| S15 | 0 | 347/19 and ((position or mis\$align\$4 or un\$align\$2) with (chang\$3 or adjust\$4 or correct\$3) with (print\$head or head or cartridge) with (sub\$scan\$3 or Y\$axis or (feed\$3 near direction))) same (eject\$3 or print\$3) same (measur\$3 or measurement) same (correct\$3 or fix\$3 or alter\$3 or alteration) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:59 |
| S16 | 0 | 347/19 and ((position or mis\$align\$4 or un\$align\$2) with (chang\$3 or adjust\$4 or correct\$3) with (print\$head or head or cartridge) with (sub\$scan\$3 or Y\$axis or (feed\$3 near direction))) same (measur\$3 or measurement) same (correct\$3 or fix\$3 or alter\$3 or alteration) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 09:59 |
| S17 | 2 | 347/19 and ((position or mis\$align\$4 or un\$align\$2) with (chang\$3 or adjust\$4 or correct\$3) with (print\$head or head or cartridge) with (sub\$scan\$3 or Y\$axis or (feed\$3 near direction))) same (eject\$3 or print\$3) same (detect\$3 or sens\$3 or measur\$3 or measurement) same (correct\$3 or fix\$3 or alter\$3 or alteration) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 10:25 |

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|-----|------|---|---|-----|----|------------------|
| S18 | 7 | 347/19 and ((position\$3 or mis\$align\$4 or un\$align\$2 or align\$4) with (chang\$3 or adjust\$4 or correct\$3) with (print\$head or head or cartridge) with (sub\$scan\$3 or Y\$axis or (feed\$3 near direction))) same (eject\$3 or print\$3) same (detect\$3 or sens\$3 or measur\$3 or measurement) same (correct\$3 or fix\$3 or alter\$3 or alteration) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:23 |
| S19 | 56 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) with except | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:27 |
| S20 | 9 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) with except with (test\$3 or ejection or step) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:29 |
| S21 | 9340 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:32 |
| S22 | 4487 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:36 |
| S23 | | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) same except with test with (nozzle or orifice or ejector) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:37 |
| S24 | 0 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) same (except with test with (nozzle or orifice or ejector)) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:37 |

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| S25 | 0 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) same (except with test\$3 with (nozzle or orifice or ejector)) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:37 |
|-----|-----|--|---|-----|----|------------------|
| S26 | 0 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) same (except with test\$3 with (nozzle or orifice or ejector or array)) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:37 |
| S27 | 92 | ((nozzle or ejector or orifice) with (array\$1 or column)) with (eject\$3 or print\$3) same (test\$3 with (nozzle or orifice or ejector or array)) "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:42 |
| S28 | 52 | "347"/\$3 and (test\$3 with (nozzle or ejector or orifice or array)) with print\$3 with before | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:44 |
| S29 | 338 | "347"/\$3 and (test\$3 with (nozzle or ejector or orifice or array)) with (pattern or swath) same (print\$3 or eject\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:55 |
| S30 | 2 | "20020060709" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 13:52 |
| S31 | 1 | "20020060709" and (print\$3 or eject\$3) same (scan\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 12:57 |
| S32 | 1 | "20020060709" and (print\$3 or eject\$3) same (scan\$4) same (bi\$directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 13:00 |

| S33 | 1 | "20020060709" and (print\$3 or eject\$3) same (bi\$directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 13:30 |
|-----|-----|--|---|-----|-----|------------------|
| S34 | 12 | ("5250956" "5262797" "5289208" "5448269" "5451990" "5600350"). pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 13:32 |
| S35 | 7 | ("5250956" "5262797" "5289208" "5448269" "5451990" "5600350"). pn. and (nozzle or ejector or orifice) with (test or pattern or swath or reference) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 13:33 |
| S36 | 7 | ("5250956" "5262797" "5289208" "5448269" "5451990" "5600350"). pn. and (nozzle or ejector or orifice) with (test\$3 or pattern or swath or reference) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 13:45 |
| S37 | 121 | test with nozzle same ejection with nozzle and "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 13:50 |
| S38 | 8 | test\$3 with nozzle same (regular) with nozzle and "347"/\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/06 13:50 |
| S39 | 1 | 2000-595467.NRAN. | DERWENT | AND | OFF | 2006/04/06 13:51 |
| S40 | 2 | "6554390".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 13:52 |
| S41 | 2 | ("6554390").URPN. | USPAT | AND | OFF | 2006/04/06 13:52 |
| S42 | 13 | ("5250956" "5262797" "5289208" "5297017" "5448269" "5451990" "5600350" "5644344" "5796414" "6076915" "6347856").PN. OR ("6554390"). URPN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/04/06 13:53 |

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|-----|-----|--|------------------------------|-----|-----|------------------|
| S43 | 11 | ("5250956" "5262797" "5289208" "5297017" "5448269" "5451990" "5600350" "5644344" "5796414" "6076915" "6347856").PN. OR ("6554390"). URPN. and (nozzle or ejector or orifice) with (test\$3 or reference or swath or pattern) | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/04/06 13:53 |
| S44 | 6 | (("5250956" "5262797" "5289208" "5297017" "5448269" "5451990" "5600350" "5644344" "5796414" "6076915" "6347856").PN. OR ("6554390"). URPN.) and (nozzle or ejector or orifice) with (test\$3 or reference or swath or pattern) | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/04/06 13:54 |
| S45 | 1 | "347"/\$3 and (test near array near nozzle) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 13:55 |
| S46 | 20 | "347"/\$3 and (test near array) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 13:55 |
| S47 | 120 | "347"/\$3 and (test near nozzles) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:21 |
| S48 | 1 | 10/796167 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:23 |
| S49 | 77 | nozzle with array with test\$3 and "347"/\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:29 |
| S50 | 0 | takehuchi.in. near atsuhiko | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:29 |
| S51 | 6 | takeuchi.in. near atsuhiko | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:29 |
| S52 | 0 | takeuchi.in. near atsuhiko and (nozzle) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:30 |
| S53 | 666 | takeuchi.in. and (nozzle) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:30 |
| S54 | 12 | takeuchi.in. and (nozzle) and epson.as. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:30 |
| S55 | 7 | takeuchi.in. and (nozzle).clm. and epson.as. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/04/06 14:31 |

| S56 | 7 | takeuchi.in. and (nozzle).clm. and epson.as. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 14:31 |
|-----|-----|---|---|-----|-----|------------------|
| S57 | 208 | "347"/\$3 and (nozzle with array with (distanced or opposite)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 15:33 |
| S58 | 2 | "200190482" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 15:28 |
| S59 | 2 | "2000190482" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 15:29 |
| S60 | 1 | 2000-502098.NRAN. | DERWENT | AND | OFF | 2006/04/06 15:28 |
| S61 | 71 | TAKIZAWA.in. near mitsuharu | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 15:30 |
| S62 | 3 | "347"/\$3 and (nozzle with array with (distanced or opposite) with (swath or test\$3 or pre\$fir\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 15:35 |
| S63 | 196 | "347"/\$3 and (test\$3 near nozzle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 16:06 |
| S64 | 8 | "347"/\$3 and (print\$3 with except with test\$3 with nozzle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2006/04/06 16:06 |